

SUB 1. A sports computer system adapted for use with
2 a personal computer comprising:
3 a sensor supported to travel with a user of the
4 system, the sensor outputting a signal relating to the
5 operational environment of the system;
6 a mobile enclosure adapted to travel with the user
7 and having an input to receive the sensor signal, the
8 following items also being contained within the enclosure;
9 a global positioning (GPS) satellite receiver,
10 a memory, and
11 a controller connected to the sensor input,
12 GPS receiver, and the memory, the controller being
13 operative to perform the following functions:
14 (a) receive a signal from the GPS receiver
15 relating as to the geographical
16 positioning of the user,
17 (b) store the geographical positioning
18 information in the memory, and
19 (c) receive the signal from the sensor and
20 store the operating environment
21 information in the memory;
22 means for accessing the contents of the memory by a
23 personal computer to display the information associated with
24 the operational environment as a function of the geographical
25 position of the user.

2. The system of claim 1, wherein the user is a

2 cyclist, and the mobile enclosure is mounted to the user's
cycle.

3. The system of claim 1, wherein the signal from
2 the GPS receiver includes altitude information, enabling the
personal computer to display the information associated with
4 the operational environment as a function of altitude.

4. The system of claim 1, wherein the signal
2 carrying information as to the bicycle's operating environment
includes the speed of the bicycle.

5. The system of claim 1, wherein the signal
2 carrying information as to the bicycle's operating environment
includes crank speed, enabling the controller to determine and
4 store cadence information for later review on the personal
computer.

6. The system of claim 1, including first and
2 second signals carrying information as to the bicycle's speed
and crank speed, enabling the controller to determine and
4 store gear ratio for later review on the personal computer.

7. The system of claim 1, further including a
2 sensor outputting a signal carrying information relating to
the physiology of the user.

8. The system of claim 7, wherein the information
2 relates to the user's heart rate.

9. The system of claim 1, further including an
2 electronic compass in communication with the controller,
4 enabling the controller to determine and store direction
4 information for later review on the personal computer.

10. The system of claim 1, further including a
2 sensor outputting a signal relating to a weather condition,
4 enabling the controller to determine and store weather
4 condition information for later review on the personal
computer.

8 11. The system of claim 10, wherein the weather
2 condition is temperature.

9 12. The system of claim 10, wherein the weather
2 condition is wind speed.

10 13. The system of claim 10, wherein the weather
2 condition is wind direction.

14. The system of claim 1, wherein the means for
2 accessing the contents of the memory by a personal computer
includes:

4 the memory being non-volatilely carried on a module

removably receivable by the enclosure, enabling the module to
6 be located proximate to the personal computer for access
thereby.

15. The system of claim 1, wherein the means for
2 accessing the contents of the memory by a personal computer
includes a computer interface port supported on the enclosure,
4 enabling the personal computer to access the memory through
suitable cabling by way of the port.

16. The system of claim 1, further including
2 software executable on the personal computer, enabling the
personal computer to display the information associated with
4 the bicycle's operating environment as a function of the
geographical position of the bicycle in the form of a picture
6 indicating the route taken by the bicycle with the operating
environment information superimposable thereon.

17. The system of claim 16, further including:
2 a personal computer capable of receiving and
displaying graphical map data, and wherein:
4 the software executable on the personal computer
further enables the personal computer to display the
6 information associated with the bicycle's operating
environment as a function of the geographical position of the
8 bicycle superimposed upon the graphical map data.

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